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4d superconformal theories with $a=c$

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We study a set of four-dimensional $N=2$ superconformal field theories (SCFTs) labeled by a pair of simply-laced Lie groups. For some special choices, the resulting theories have identical central charges ($a=c$) without taking any large N limit. Moreover, we find that the Schur indices for such theories can be written in terms of that of $N=4$ super Yang-Mills theory upon rescaling fugacities.

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